TP700
.A5

INDEX---VOL. XXIII.

☞ An asterisk denot a illustrated article.

A.

Analysis, Spectroscopic, 27.
Ammoniacal Liquors and other Products from Gas Works, Utilization of, 26.
Ammonia Manufacture, Gas Purification and the, 26.
Air, Pure, 85.
Artificial Geyser, An, 90.
Association of Gas Engineers, New England, 121, 141.
Artificial Charcoal—Inflammability of Coals, 127, 143.
American Gas-Light Association, Third Annual Meeting of the, 162, 181, 201, 211.

B.

Brooklyn Bridge, Cost of the, 147.

C.

Coal Supply of the Pacific Coast, The, 27.
Cast Iron Pipes, Protecting, 46.
Catarrhal Affections, Dust as a Cause of, 47.
Cooking, Reform in, 47.
Coals and Mineral Oils of America, Prof. Sterry Hunt on, 62, 81.
Charcoal Foundry, 64.
Coal Measures, Boulders in the, 67.
Channel Tunnel, British View of the, 86.
Chemist, Confessions of a, 87.
Chemical Firefly, the, 104.
Conveyance of Coal, Cost of the, 126.
Consolidation of Coal, The, 127.
Coal-Gas, Sulphur in, 160.
Cornelius Everett and Chas. G. Miles, Death of—Obituary, 204.
Coal-Tar and Petroleum in the Manufacture of Gas, On the Value of, 224.
CORRESPONDENCE—
Ascension-Pipe, Hydraulic Main and, 26.
Answer to Mr. Allen, Mr. Patton's, 206.
Coal, Cannelton, 66.
Coomb's Patent, The, 85.
Correction, A, 166.
Gas, Petroleum, 26, 66.
George Stacey, Death of, 66.
Gas, Street Loss of, 185.
Mr. Neal, Letter from, 146.
Mr. Allen, Letter from, 185.
Naphtha Gas, 127.
Naphthaline, Cheap Remedy for, 146.
Purification, Lime, 184.
Reply to Mr. Sabbaton, Mr. Coombs in, 46.
Request, A, 146.
Reply to Mr, Patton, Mr. Allen's, 226.
Somerville's Letter, Mr., 46,
Street-Loss Accounts for 1874, Some Foreign, 146.
Street-Loss—Modern Gas-Lighting, 165.
Street-Loss Accounts, American, 226.
Water-Gas, 107.

D.

Disparaging, Rather, 46.
Diffusion of Heat the End of all Energy, the Universal, 86.
Distillation of Coal, Products of, 147.

E.

Excerpts, Chemical, 2, 24, 43, 62.
Explosions, Boiler, 7.
Explosion in England, Singular, 30.
Electricity, Lighting Street Lamps by, 85.
Electricity, Newspapers by, 86.
Earthquakes, Phenomena of, 127.
EDITORIALS—
Association of Gas Engineers, New England, 69.
Announcement, 88.
Ammonia, Mr. Smedberg on, 88.
American Institute Fair, 89.
American Gas-Light Association, The Annual Meeting of the, 108, 128, 148, 168.
Coal? What is, 89.
Consumption and Supply, Gas, 128.
Critiques, Literary, 149.
Candles, 15 and 20, 228.
Dredging Machines, M. Bazin's, 208.
Exhibition—National Industry, A Grand National, 69.
Engine, Gas, 88.
Enameled Water Pipes, Tubes and, Extra Large Lap-welded, 129.
Excursions, 229.
For American Farmers, Sulphuric Acid from Gas from, 9.
Gas Light Association, The, 48.
Greeting, Editorial, 108, 148.
Gas-Making, Empiricism in, 128.
Henry Wilson, Hon., 209.
Lime Light, Hare's, 68.
Light, 170, 188, 209.
Moses Coombs Apparatus, The, 8,
Mindeleff Reduction Process, The, 209.
Notice, Literary, 189.
Obligation Fulfilled, An, 49.
Over the Waters, Water Gas, 58.
Our Patrons, To, 209.
Potato Bug, The, 9.
Pyrophone, The, 48.
Peebles, Mr., 149.
Report, Our, 209.
Sulphuric Acid, Sulphur Purification and, 28.
Siderurgy, New Methods in, 48.
Treating Crude Coal Gas, Second Report on the St. John and Rockwell Method of, 8.
Truth Stranger than Fiction, Free Trade in Battabane, 29.
Testing Iron, Steel, etc., U. S. Board Appointed for, 189.
Thanksgiving, 208.
Units, Heat, No. 1, 228.
Ventilation, Light and, 108.
Vindication, Prof. Silliman's, 9.
What will We do with It? 68.
Water-gas, 88, 109.

F.

Fires, Patents, and Gas Machines, Report of the Committee on, 166.
Flames Become Luminous, How, 185.
Forests, Consumption of, 206.
French Patents, Specfications of, 210.

G.

Gas Meters, Louisville Gas Litigation, 6.
Gas Coals, Kanawha, 45.
Gas, Natural, 47.
Gas at Philadelphia Gas Works, Demand and Supply of, 67,
Gas Engine, Improved, 82.
Gas and Water Supply of London, The, 90.
Gas Engines, Atmospheric, 100.
Glass, Toughening, 105.
Gas Patents, British, 107.
Gas, Purification of by Oxide of Iron, 123.
Gas under High Pressure. Experiments on, 207.
Gas, Sewer, at the Best End of Towns, 210.

H.

Hash, Metallurgical, 47.
Heat on Germination, Effects of, 61.
Heat Absorbed by Pig Iron, Cinder and Steel at High Temperatures, 85.
House Heating, An Improvement in, 87.
Horse Power of Steam Engines, Estimating the. 225.

I.

Items, Water Supply, 7, 66.
Items, Gas, 7, 25, 66.
Illuminating Gas to the Pprophone, Application of, 44.
Illumination, Light House, 50.
Iron Pipes, Casting, 87.
Iron Ores. Dephosphorization of, 105.
Intelligence, Gas-Light, 106, 124, 145, 166, 186, 205, 227.
Inequality, Ocular, 130.
Instantaneous Crystallization, A Beautiful Experiment in, 161.
Industry and Agriculture, Prizes in, 187.
Iron Water Pipes, Sanitary Value of, 190.

J.

Jamaica, West Indies, Public Works in,

K.

Keeley Motor, Exhibition of the, 147.

L.

Large Cities, Water Rates of, 65.
Lime for Purification, Preparation of, 187.
Light from Stones—A Phenomenon, 110.

M.

*Moses Coombs New Improvement, Description of, 1.
Meeting of the American Gas-Light Association, Third Semi-Annual Meeting, 2, 21, 41.
Mechanical Record, Mineral and, 105, 126.
Manufacture of Iron, Natural Gas in the, 123.
Meter System in Paddington, The Average, 167.
Mineral Oils, the Determination of, 207.

N.

Natural Gas, Puddling with, 45.
Native Petroleum, British, 67.
Nitric Oxide Gas, Lamp for burning, 85.
New Red Sandstone, Water Supply from the, 187.

O.

Oils, Tests for, 47.
Outlook in Our Cities, Sanitary, 65.
Oil Regions of McKean and Cattaraugus Counties, The, 84.

P.

Pipes, Service, 61.
Pelouze and Audonin Condenser, The, 83, 103.
Properties of Compressed Air, The Antiseptic. 54.
Pacific Coast, Coal Mining on the, 87.
Production of Oxygen Gas, The Mechanical, 107.
Petroleum, as Enrichers, Naphthaline and, 142.
Patents, American, 207.

R.

Retention of Heat, Wonderful, 7.
Rivers, British, 85.
Railwy Carriages by Gas, Lighting, 87.

S.

Sewer Gas, Corrosion of Pipes by, 24.
Starch, Fire Proof, 47.
Sewage System, The Pneumatic, 64.
Safety Lamps, Value of, 84.
Sun's Light, Heat, and Distance, Illustrations of the, 80.
Scientific Association, British, 101.
Scientific Repertory, Chemical and, 105, 125, 144, 166, 187, 205.
Sewage, Utilization of, 145.
*Self-Sealing Retort Lid, Eureka, 161.
Sewerage in Great Britain, Water Supply and, 161.
Safety Lamps, Improvement in, 206.

T.

Thin Air, Life and, 47.

V.

Ventilation, Car, 87.
Ventilation and Warming, 123.

W.

Water, Lecture on, 65.
Water Supply of the City of Philadelphia, The Commission on, 82.
Water Supply, Supply, New York City, 83.
Water Supply Works, 145.
Water Works of Virginia City, Nevada, The, 167.
Water Supply, 206.

TP700
.A5

INDEX---VOL. XXIII.

☞ An asterisk denot a illustrated article.

A.

Analysis, Spectroscopic, 27.
Ammoniacal Liquors and other Products from Gas Works, Utilization of, 26.
Ammonia Manufacture, Gas Purification and the, 26.
Air, Pure, 85.
Artificial Geyser, An, 90.
Association of Gas Engineers, New England, 121, 141.
Artificial Charcoal—Inflammability of Coals, 127, 143.
American Gas-Light Association, Third Annual Meeting of the, 162, 181, 201, 211.

B.

Brooklyn Bridge, Cost of the, 147.

C.

Coal Supply of the Pacific Coast, The, 27.
Cast Iron Pipes, Protecting, 46.
Catarrhal Affections, Dust as a Cause of, 47.
Cooking, Reform in, 47.
Coals and Mineral Oils of America, Prof. Sterry Hunt on, 62, 81.
Charcoal Foundry, 64.
Coal Measures, Boulders in the, 67.
Channel Tunnel, British View of the, 86.
Chemist, Confessions of a, 87.
Chemical Firefly, the, 104.
Conveyance of Coal, Cost of the, 126.
Consolidation of Coal, The, 127.
Coal-Gas, Sulphur in, 160.
Cornelius Everett and Chas. G. Miles, Death of—Obituary, 204.
Coal-Tar and Petroleum in the Manufacture of Gas, On the Value of, 224.
CORRESPONDENCE—
Ascension-Pipe, Hydraulic Main and, 26.
Answer to Mr. Allen, Mr. Patton's, 206.
Coal, Cannelton, 66.
Coomb's Patent, The, 85.
Correction, A, 166.
Gas, Petroleum, 26, 66.
George Stacey, Death of, 66.
Gas, Street Loss of, 185.
Mr. Neal, Letter from, 146.
Mr. Allen, Letter from, 185.
Naphtha Gas, 127.
Naphthaline, Cheap Remedy for, 146.
Purification, Lime, 184.
Reply to Mr. Sabbaton, Mr. Coombs in, 46.
Request, A, 146.
Reply to Mr, Patton, Mr. Allen's, 226.
Somerville's Letter, Mr., 46,
Street-Loss Accounts for 1874, Some Foreign, 146.
Street-Loss—Modern Gas-Lighting, 165.
Street-Loss Accounts, American, 226.
Water-Gas, 107.

D.

Disparaging, Rather, 46.
Diffusion of Heat the End of all Energy, the Universal, 86.
Distillation of Coal, Products of, 147.

E.

Excerpts, Chemical, 2, 24, 43, 62.
Explosions, Boiler, 7.
Explosion in England, Singular, 30.
Electricity, Lighting Street Lamps by, 85.
Electricity, Newspapers by, 86.
Earthquakes, Phenomena of, 127.
EDITORIALS—
Association of Gas Engineers, New England, 69.
Announcement, 88.
Ammonia, Mr. Smedberg on, 88.
American Institute Fair, 89.
American Gas-Light Association, The Annual Meeting of the, 108, 128, 148, 168.
Coal? What is, 89.
Consumption and Supply, Gas, 128.
Critiques, Literary, 149.
Candles, 15 and 20, 228.
Dredging Machines, M. Bazin's, 208.
Exhibition—National Industry, A Grand National, 69.
Engine, Gas, 88.
Enameled Water Pipes, Tubes and, Extra Large Lap-welded, 129.
Excursions, 229.
For American Farmers, Sulphuric Acid from Gas from, 9.
Gas Light Association, The, 48.
Greeting, Editorial, 108, 148.
Gas-Making, Empiricism in, 128.
Henry Wilson, Hon., 209.
Lime Light, Hare's, 68.
Light, 170, 188, 209.
Moses Coombs Apparatus, The, 8,
Mindeleff Reduction Process, The, 209.
Notice, Literary, 189.
Obligation Fulfilled, An, 49.
Over the Waters, Water Gas, 58.
Our Patrons, To, 209.
Potato Bug, The, 9.
Pyrophone, The, 48.
Peebles, Mr., 149.
Report, Our, 209.
Sulphuric Acid, Sulphur Purification and, 28.
Siderurgy, New Methods in, 48.
Treating Crude Coal Gas, Second Report on the St. John and Rockwell Method of, 8.
Truth Stranger than Fiction, Free Trade in Battabane, 29.
Testing Iron, Steel, etc., U. S. Board Appointed for, 189.
Thanksgiving, 208.
Units, Heat, No. 1, 228.
Ventilation, Light and, 108.
Vindication, Prof. Silliman's, 9.
What will We do with It? 68.
Water-gas, 88, 109.

F.

Fires, Patents, and Gas Machines, Report of the Committee on, 166.
Flames Become Luminous, How, 185.
Forests, Consumption of, 206.
French Patents, Specfications of, 210.

G.

Gas Meters, Louisville Gas Litigation, 6.
Gas Coals, Kanawha, 45.
Gas, Natural, 47.
Gas at Philadelphia Gas Works, Demand and Supply of, 67,
Gas Engine, Improved, 82.
Gas and Water Supply of London, The, 90.
Gas Engines, Atmospheric, 100.
Glass, Toughening, 105.
Gas Patents, British, 107.
Gas, Purification of by Oxide of Iron, 123.
Gas under High Pressure. Experiments on, 207.
Gas, Sewer, at the Best End of Towns, 210.

H.

Hash, Metallurgical, 47.
Heat on Germination, Effects of, 61.
Heat Absorbed by Pig Iron, Cinder and Steel at High Temperatures, 85.
House Heating, An Improvement in, 87.
Horse Power of Steam Engines, Estimating the. 225.

I.

Items, Water Supply, 7, 66.
Items, Gas, 7, 25, 66.
Illuminating Gas to the Pprophone, Application of, 44.
Illumination, Light House, 50.
Iron Pipes, Casting, 87.
Iron Ores. Dephosphorization of, 105.
Intelligence, Gas-Light, 106, 124, 145, 166, 186, 205, 227.
Inequality, Ocular, 130.
Instantaneous Crystallization, A Beautiful Experiment in, 161.
Industry and Agriculture, Prizes in, 187.
Iron Water Pipes, Sanitary Value of, 190.

J.

Jamaica, West Indies, Public Works in,

K.

Keeley Motor, Exhibition of the, 147.

L.

Large Cities, Water Rates of, 65.
Lime for Purification, Preparation of, 187.
Light from Stones—A Phenomenon, 110.

M.

*Moses Coombs New Improvement, Description of, 1.
Meeting of the American Gas-Light Association, Third Semi-Annual Meeting, 2, 21, 41.
Mechanical Record, Mineral and, 105, 126.
Manufacture of Iron, Natural Gas in the, 123.
Meter System in Paddington, The Average, 167.
Mineral Oils, the Determination of, 207.

N.

Natural Gas, Puddling with, 45.
Native Petroleum, British, 67.
Nitric Oxide Gas, Lamp for burning, 85.
New Red Sandstone, Water Supply from the, 187.

O.

Oils, Tests for, 47.
Outlook in Our Cities, Sanitary, 65.
Oil Regions of McKean and Cattaraugus Counties, The, 84.

P.

Pipes, Service, 61.
Pelouze and Audonin Condenser, The, 83, 103.
Properties of Compressed Air, The Antiseptic. 54.
Pacific Coast, Coal Mining on the, 87.
Production of Oxygen Gas, The Mechanical, 107.
Petroleum, as Enrichers, Naphthaline and, 142.
Patents, American, 207.

R.

Retention of Heat, Wonderful, 7.
Rivers, British, 85.
Railwy Carriages by Gas, Lighting, 87.

S.

Sewer Gas, Corrosion of Pipes by, 24.
Starch, Fire Proof, 47.
Sewage System, The Pneumatic, 64.
Safety Lamps, Value of, 84.
Sun's Light, Heat, and Distance, Illustrations of the, 80.
Scientific Association, British, 101.
Scientific Repertory, Chemical and, 105, 125, 144, 166, 187, 205.
Sewage, Utilization of, 145.
*Self-Sealing Retort Lid, Eureka, 161.
Sewerage in Great Britain, Water Supply and, 161.
Safety Lamps, Improvement in, 206.

T.

Thin Air, Life and, 47.

V.

Ventilation, Car, 87.
Ventilation and Warming, 123.

W.

Water, Lecture on, 65.
Water Supply of the City of Philadelphia, The Commission on, 82.
Water Supply, Supply, New York City, 83.
Water Supply Works, 145.
Water Works of Virginia City, Nevada, The, 167.
Water Supply, 206.